

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064730.D
 Acq On : 19 Nov 2020 14:01
 Operator : JC/MD
 Sample : L4783-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5

Manual Integrations
 APPROVED

MMDadoda
 11/24/2020 3:11:20 PM

Quant Time: Nov 20 04:36:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	328288	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	634981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	502028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	239230	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	256874	44.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.96%	
35) Dibromofluoromethane	7.55	113	172822	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
50) Toluene-d8	10.06	98	810321	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.38	95	281559	45.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.72%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	248964	444.357	ug/l	97
19) Methyl tert-butyl Ether	5.00	73	315278	26.696	ug/l #	1
31) Cyclohexane	7.61	56	276113	44.223	ug/l	98
39) Methylcyclohexane	9.05	83	155264	26.824	ug/l	93
40) Benzene	8.00	78	5316022	292.053	ug/l	100
52) Toluene	10.12	92	514530	45.896	ug/l	99
67) Ethyl Benzene	11.48	91	5600526	297.444	ug/l #	88
68) m/p-Xylenes	11.59	106	100729	16.701	ug/l	96
69) o-Xylene	11.92	106	5932	0.903	ug/l	88
73) Isopropylbenzene	12.22	105	2717024	159.963	ug/l	100
78) n-propylbenzene	12.57	91	3695291	186.813	ug/l	100
80) 1,3,5-Trimethylbenzene	12.70	105	16824m	1.192	ug/l	
84) 1,2,4-Trimethylbenzene	13.02	105	24822	1.724	ug/l	98
85) sec-Butylbenzene	13.14	105	119106	8.187	ug/l #	64
89) n-Butylbenzene	13.59	91	152017	12.170	ug/l #	81
95) Naphthalene	15.10	128	1778501	132.269	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

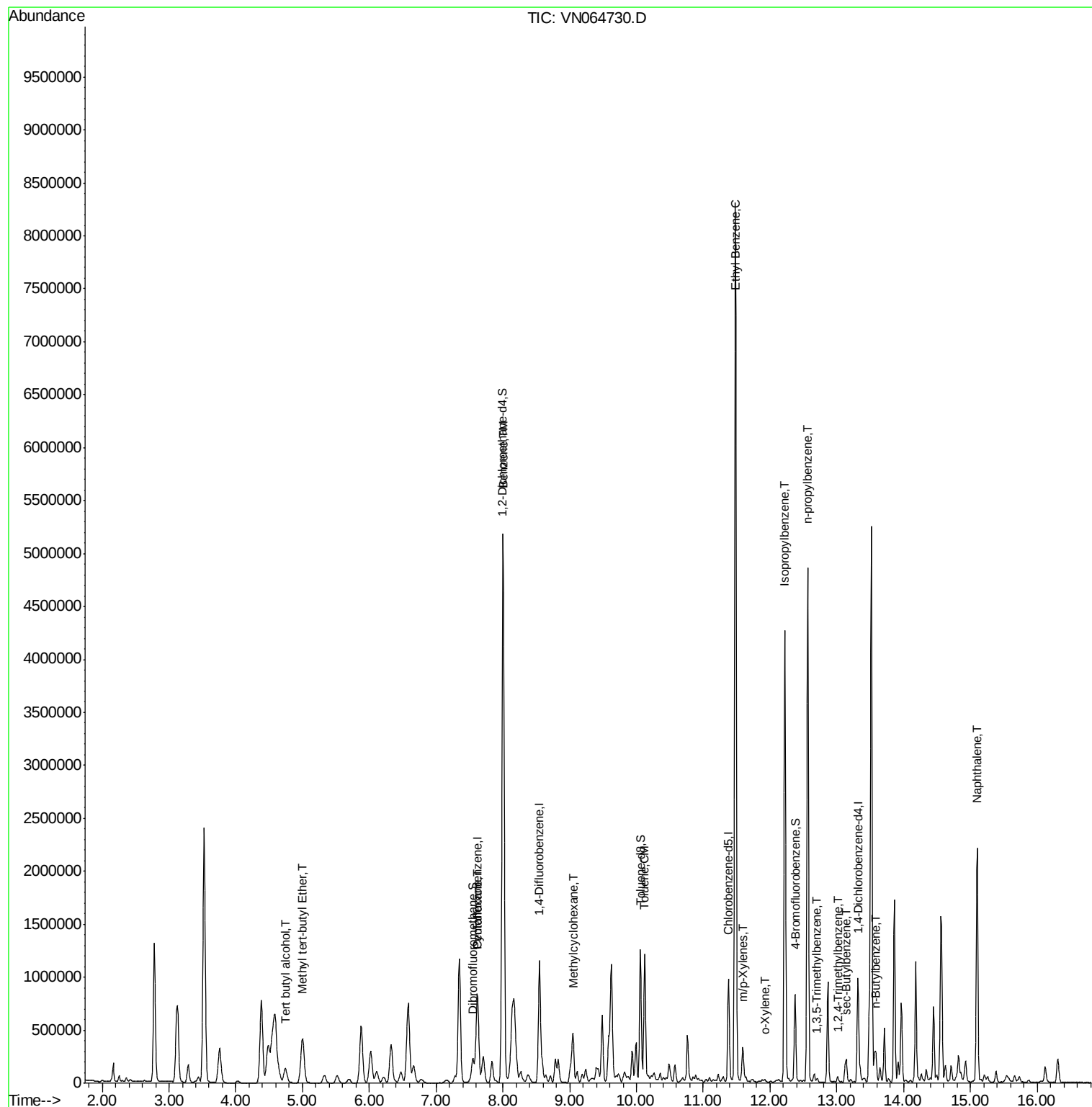
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
Data File : VN064730.D
Acq On : 19 Nov 2020 14:01
Operator : JC/MD
Sample : L4783-18
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

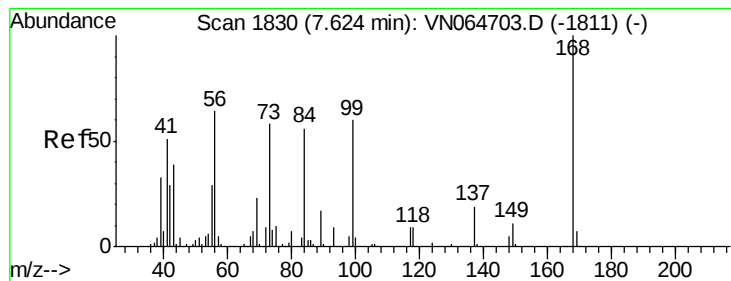
Instrument :
MSVOA_N
ClientSampleId :
MW-5

Manual Integrations
APPROVED

MMDadoda
11/24/2020 3:11:20 PM

Quant Time: Nov 20 04:36:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampleId :

MW-5

Tot Ion:168 Resp: 328288

Ion Ratio Lower Upper

168 100

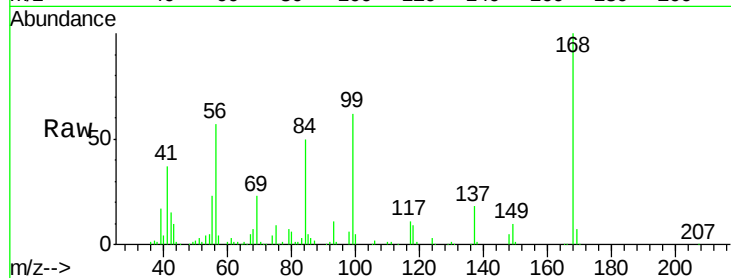
99 62.4 55.7 83.5

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

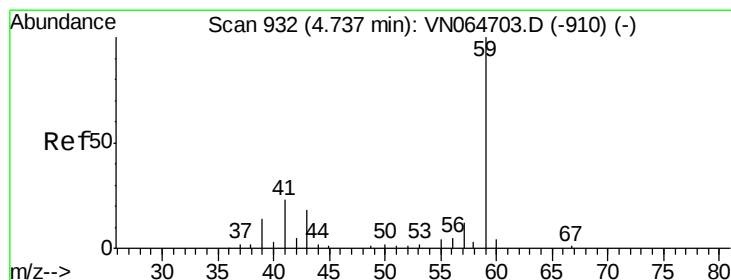
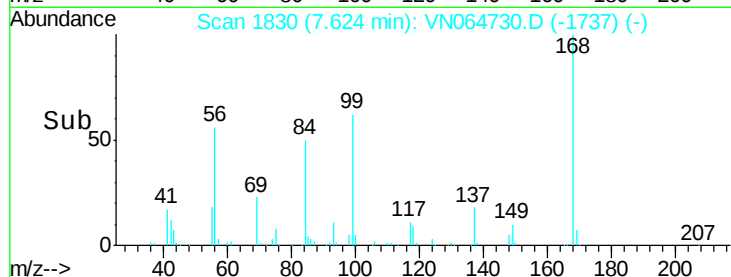
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 444.357 ug/l

RT: 4.74 min Scan# 934

Delta R.T. 0.01 min

Lab File: VN064730.D

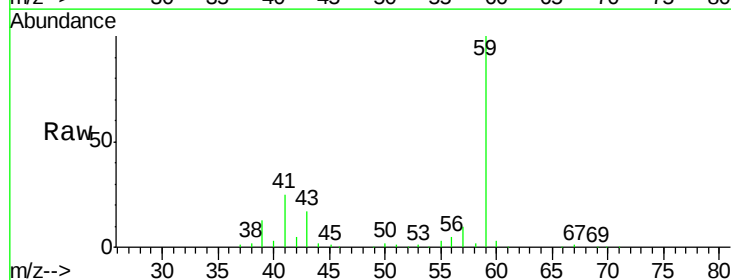
Acq: 19 Nov 2020 14:01

Tgt Ion: 59 Resp: 248964

Ion Ratio Lower Upper

59 100

57 10.3 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

80000

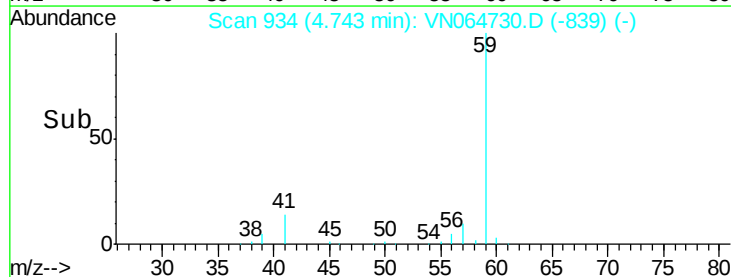
60000

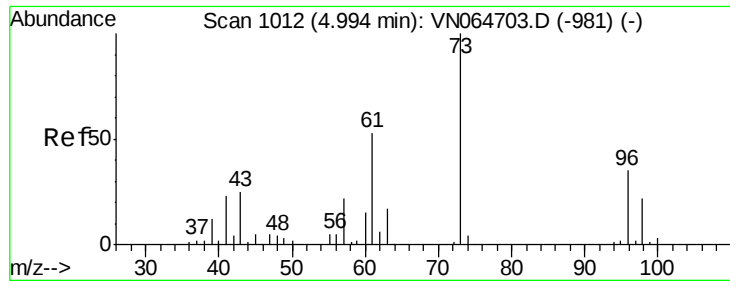
40000

20000

0

Time--> 4.60 4.70 4.80 4.90





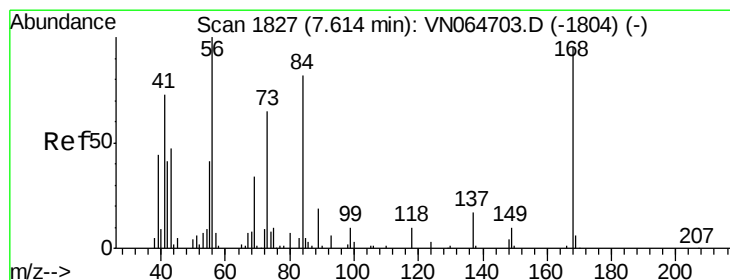
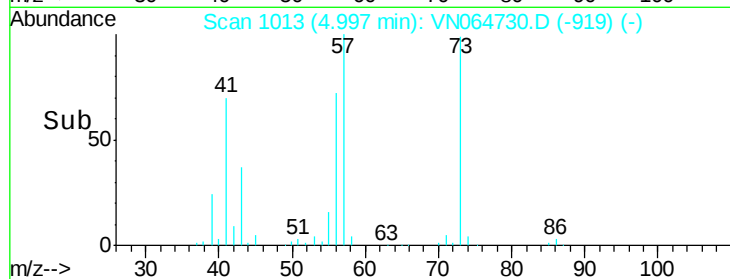
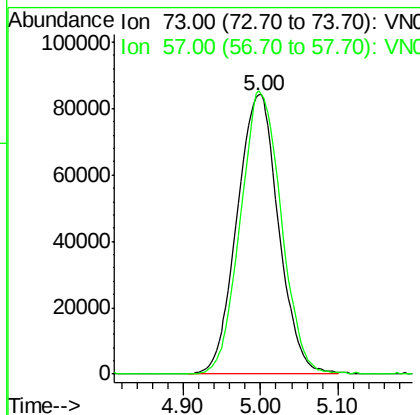
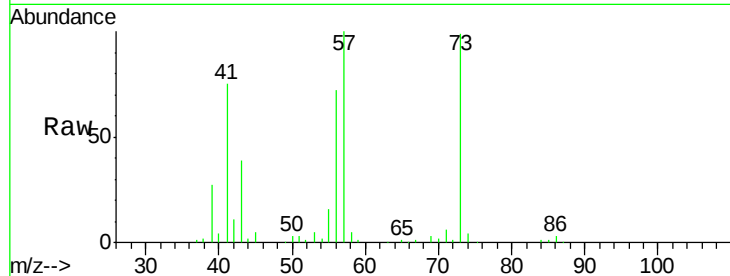
#19
Methvl tert-butvl Ether
Concen: 26.696 ug/l
RT: 5.00 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Instrument :
MSVOA_N
ClientSampled :
MW-5

Tot Ion: 73 Resp: 315278
Ion Ratio Lower Upper
73 100
57 101.4 17.3 25.9#

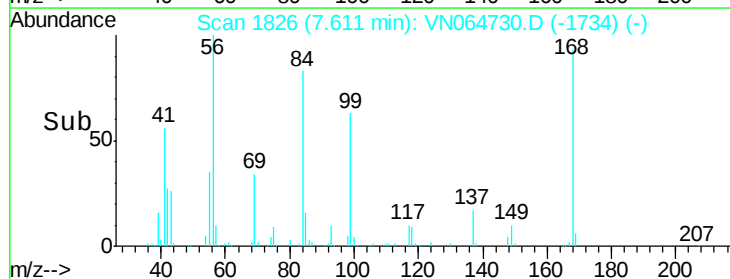
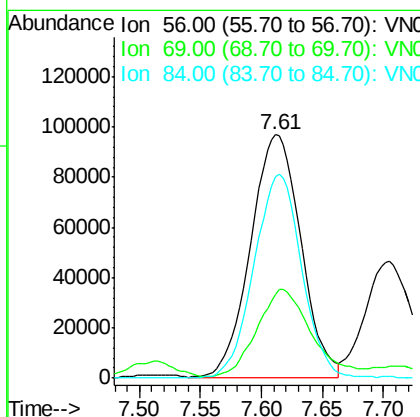
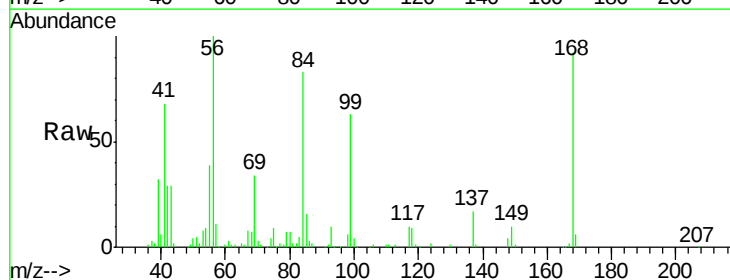
Manual Integrations
APPROVED

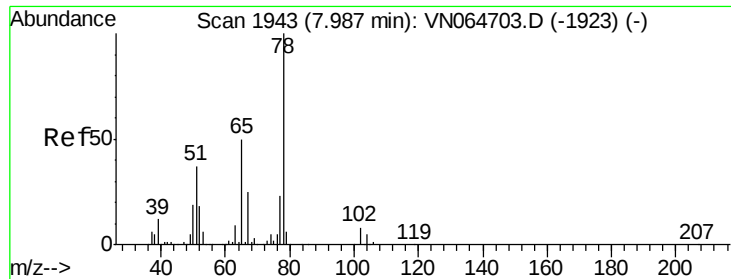
MMDadoda
11/24/2020 3:11:20 PM



#31
Cyclohexane
Concen: 44.223 ug/l
RT: 7.61 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Tgt Ion: 56 Resp: 276113
Ion Ratio Lower Upper
56 100
69 32.4 27.2 40.8
84 83.3 65.9 98.9





#33

1,2-Dichloroethane-d4

Concen: 44.479 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampled :

MW-5

Tot Ion: 65 Resp: 256874

Ion Ratio Lower Upper

65 100

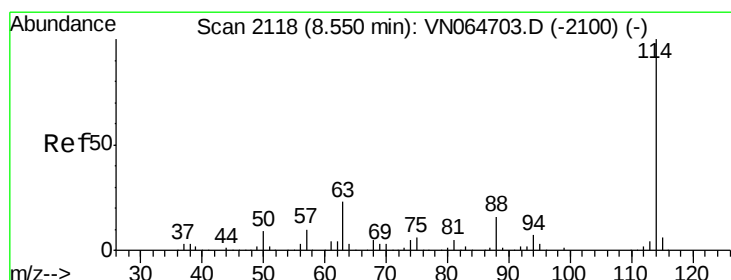
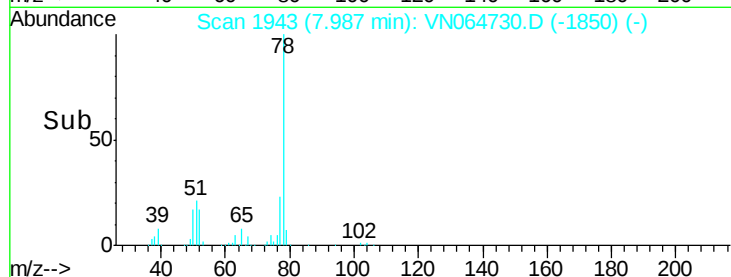
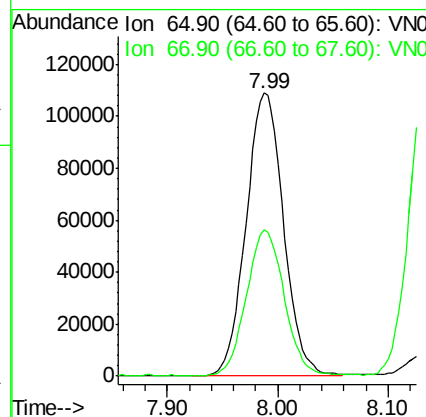
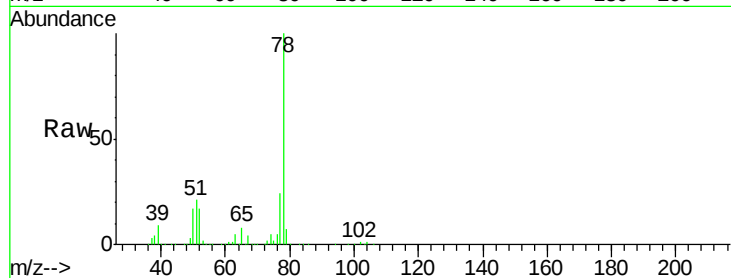
67 52.3 0.0 99.8

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

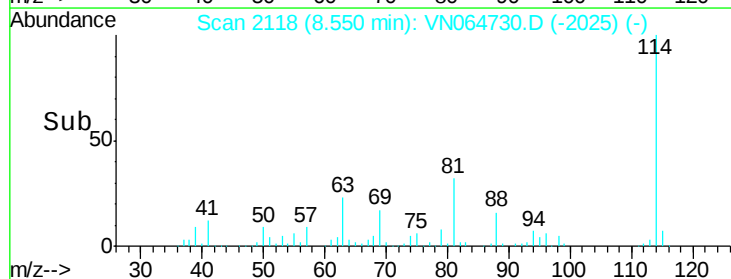
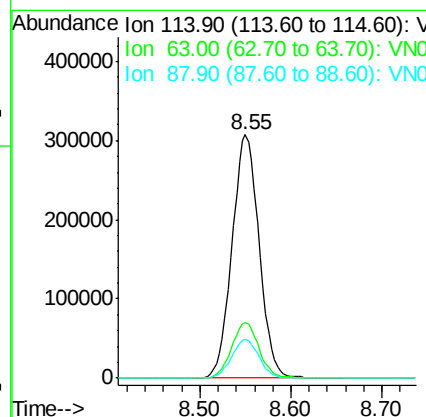
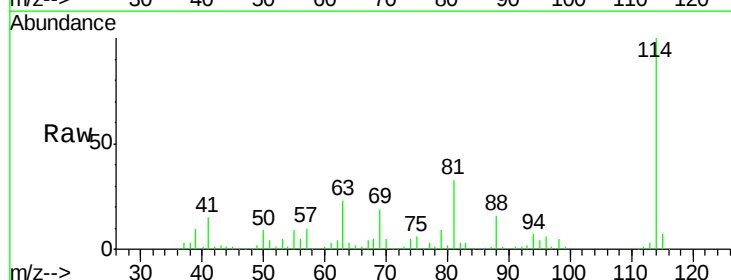
Tgt Ion: 114 Resp: 634981

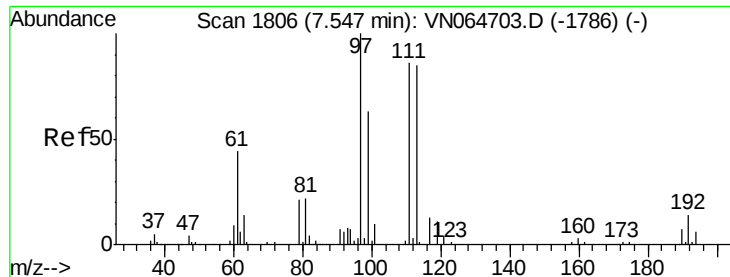
Ion Ratio Lower Upper

114 100

63 22.8 0.0 46.0

88 15.9 0.0 31.2





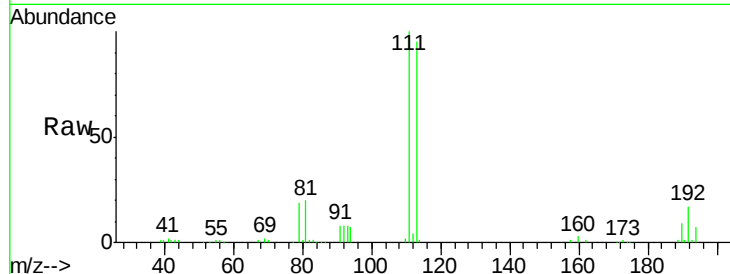
#35
Dibromofluoromethane
Concen: 47.818 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Instrument :
MSVOA_N
ClientSampleId :
MW-5

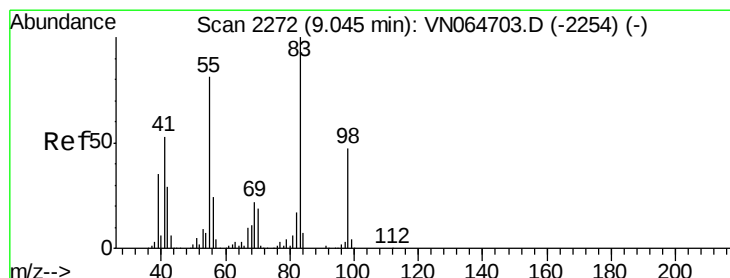
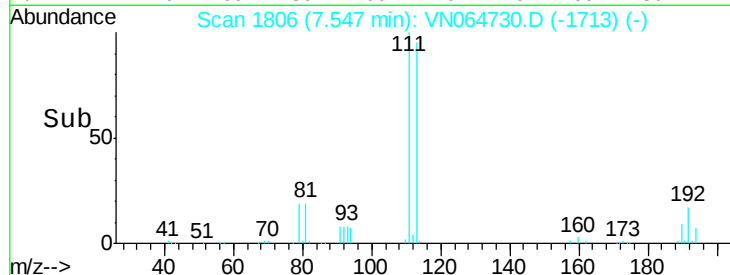
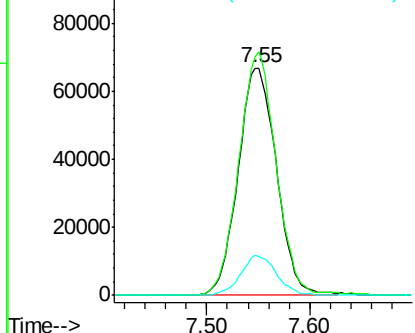
Tot Ion	Ratio	Resp	Lower	Upper
113	100	172822		
111	104.2	82.2	123.4	
192	16.4	12.7	19.1	

Manual Integrations
APPROVED

MMDadoda
11/24/2020 3:11:20 PM

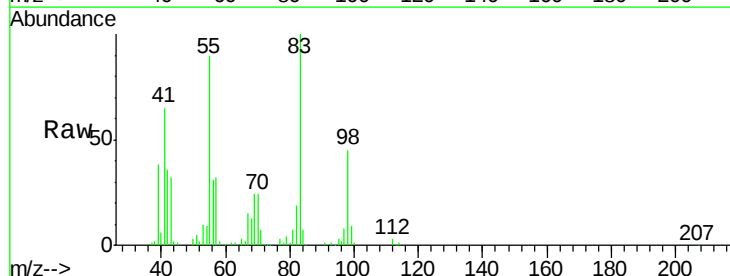


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

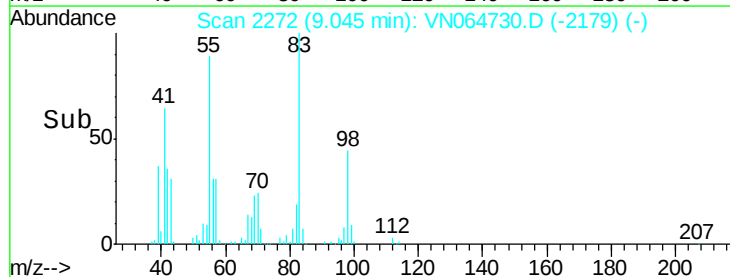
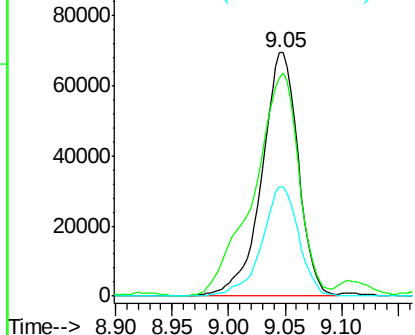


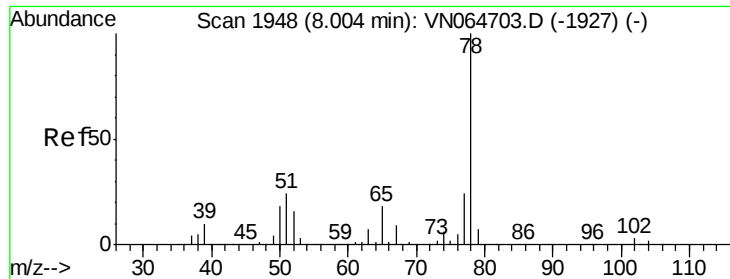
#39
Methylcyclohexane
Concen: 26.824 ug/l
RT: 9.05 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	155264		
55	89.5	64.6	97.0	
98	44.9	37.7	56.5	



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 292.053 ug/l

RT: 8.00 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampleId :

MW-5

Tot Ion: 78 Resp: 5316022

Ion Ratio Lower Upper

78 100

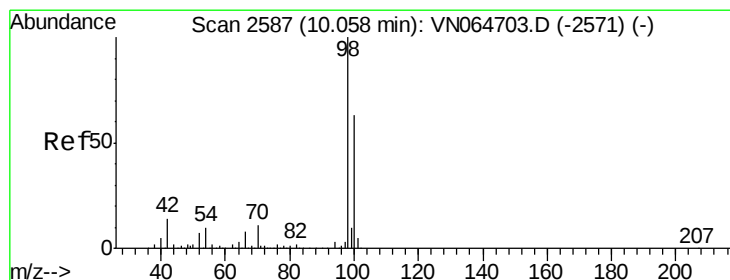
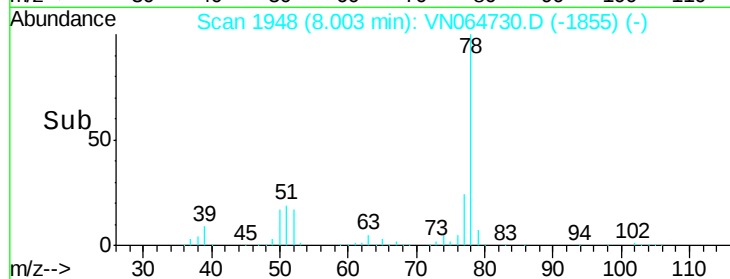
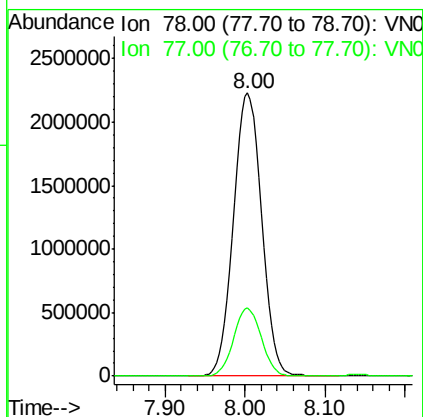
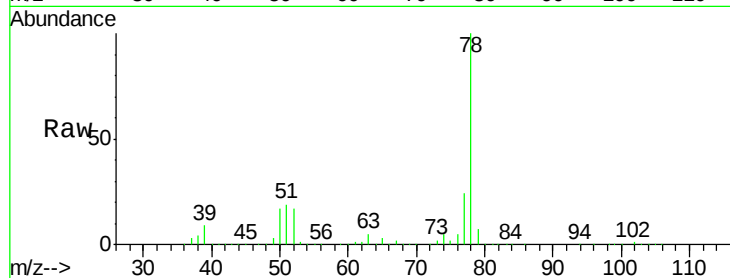
77 24.0 19.2 28.8

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



#50

Toluene-d8

Concen: 49.332 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064730.D

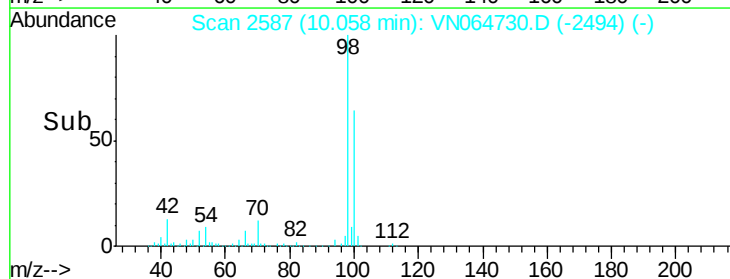
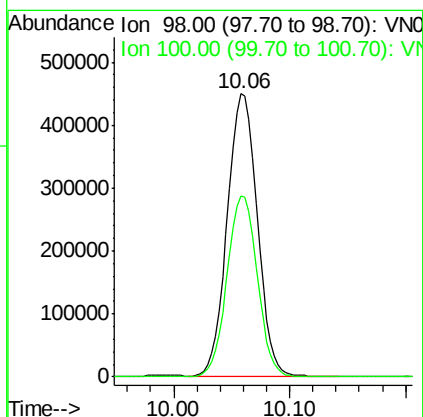
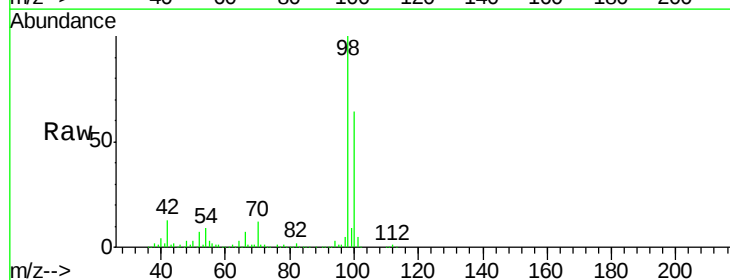
Acq: 19 Nov 2020 14:01

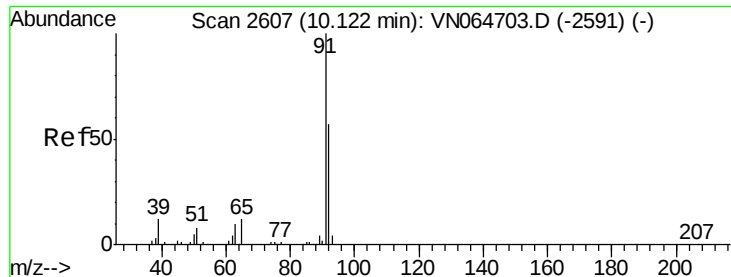
Tgt Ion: 98 Resp: 810321

Ion Ratio Lower Upper

98 100

100 64.4 50.4 75.6





#52

Toluene

Concen: 45.896 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampled :

MW-5

Tot Ion: 92 Resp: 514530

Ion Ratio Lower Upper

92 100

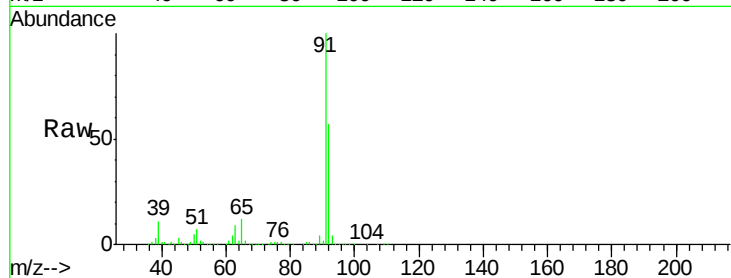
91 174.9 141.2 211.8

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

500000

400000

300000

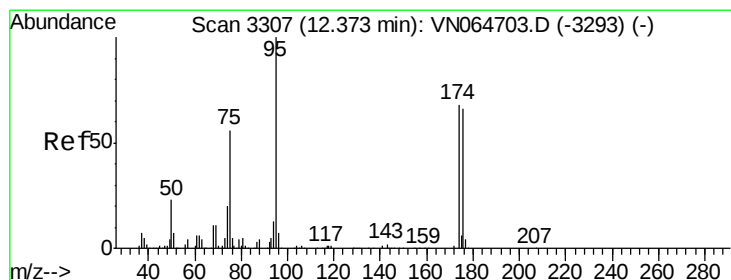
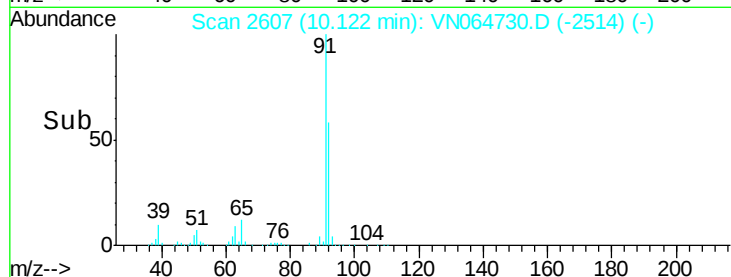
200000

100000

0

10.10 10.12 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 45.860 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

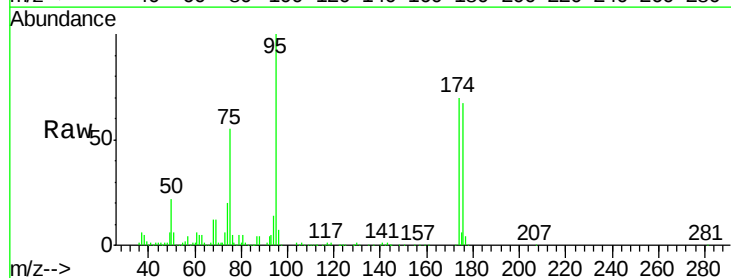
Tgt Ion: 95 Resp: 281559

Ion Ratio Lower Upper

95 100

174 68.4 0.0 136.8

176 66.1 0.0 134.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

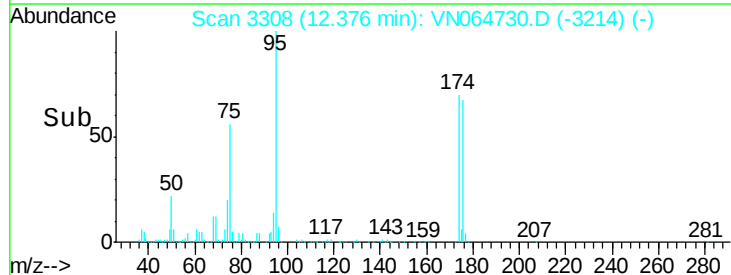
100000

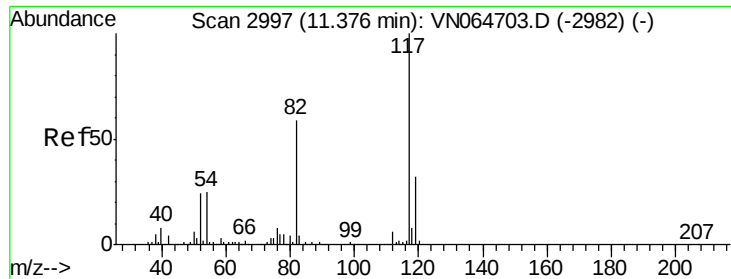
50000

0

12.30 12.38 12.40

Time-->





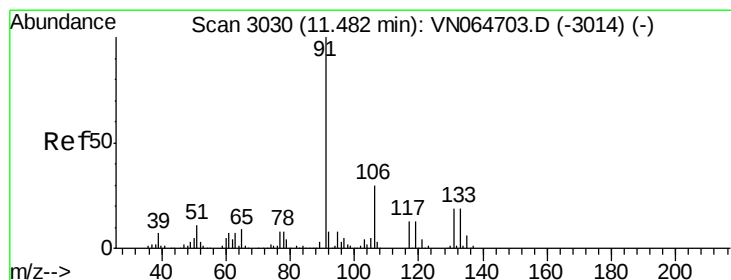
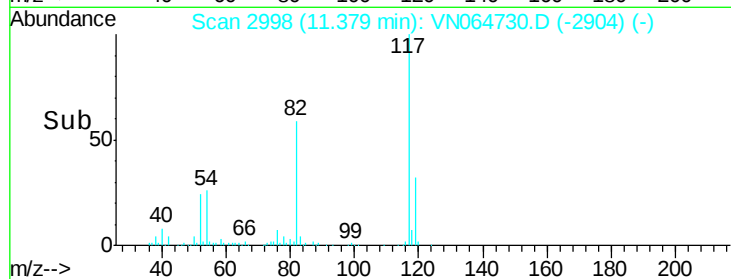
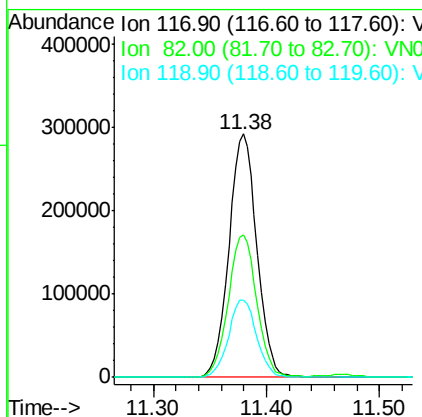
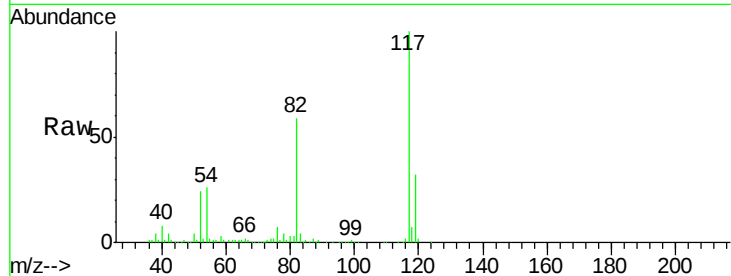
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Instrument :
MSVOA_N
ClientSampled :
MW-5

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.0	70.6
119	31.9	25.4	38.2

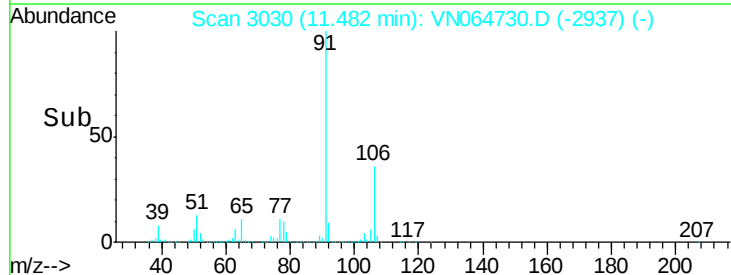
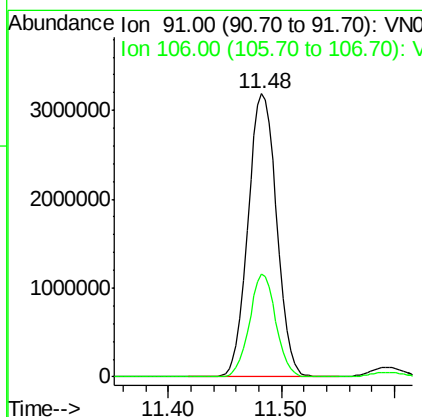
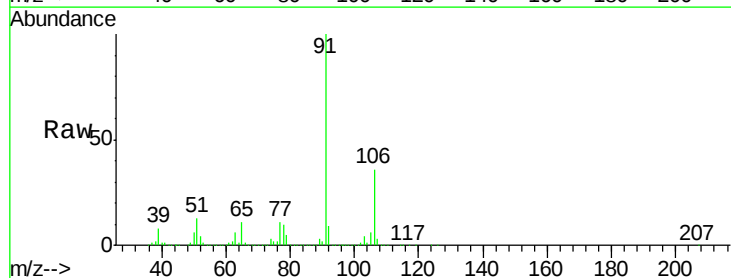
Manual Integrations
APPROVED

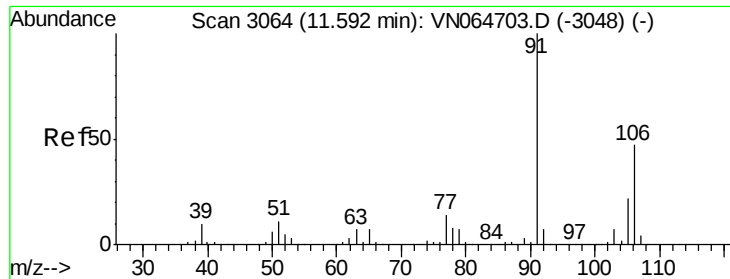
MMDadoda
11/24/2020 3:11:20 PM



#67
Ethyl Benzene
Concen: 297.444 ug/l
RT: 11.48 min Scan# 3030
Delta R.T. -0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.2	23.9	35.9#





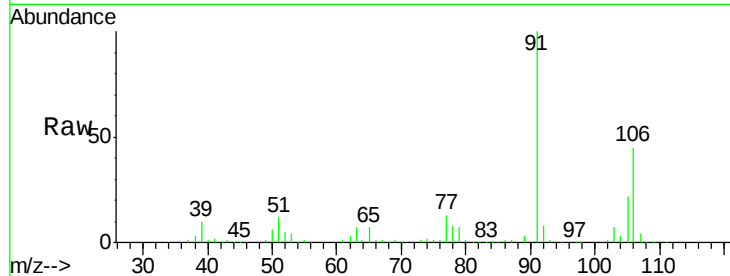
#68
m/p-Xylenes
Concen: 16.701 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. 0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Instrument :
MSVOA_N
ClientSampleId :
MW-5

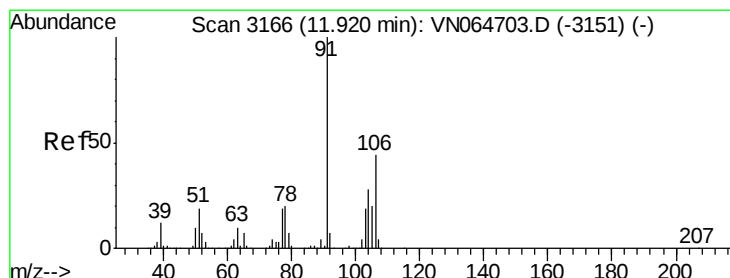
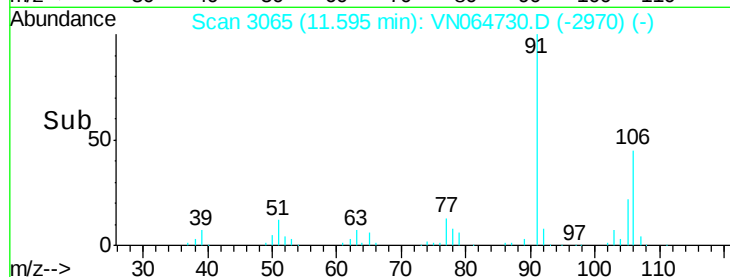
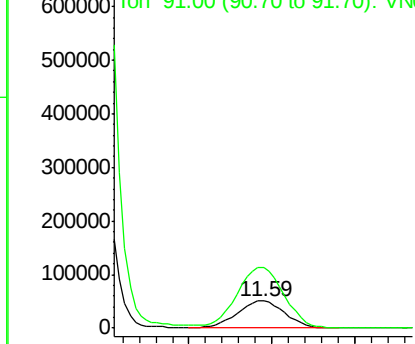
Tot Ion:106 Resp: 100729
Ion Ratio Lower Upper
106 100
91 221.8 171.9 257.9

Manual Integrations
APPROVED

MMDadoda
11/24/2020 3:11:20 PM

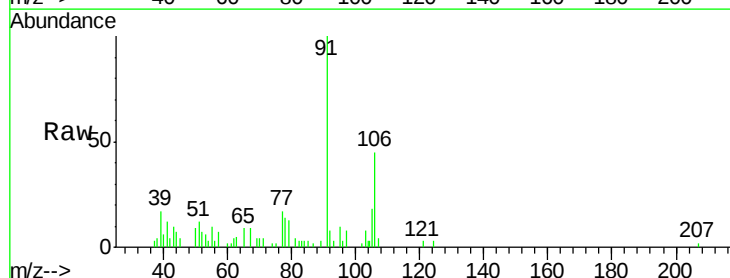


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

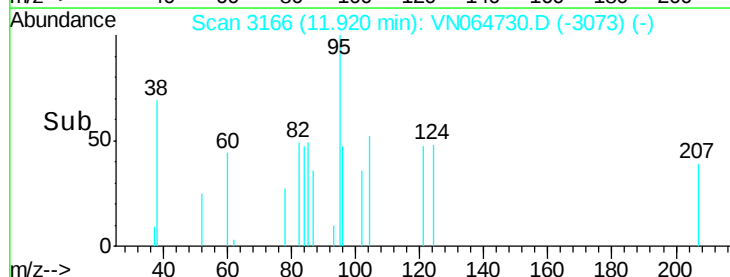
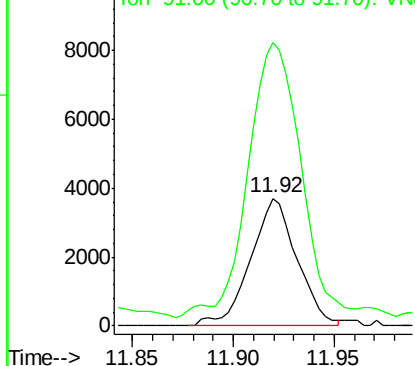


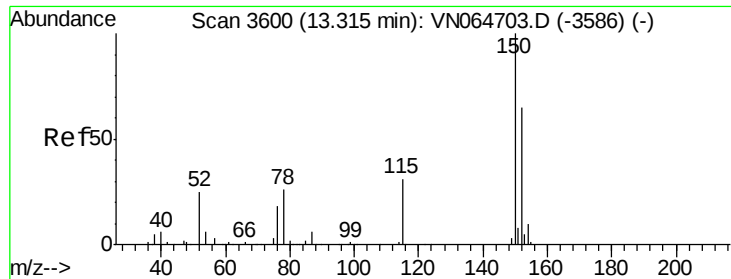
#69
o-Xylene
Concen: 0.903 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VN064730.D
Acq: 19 Nov 2020 14:01

Tgt Ion:106 Resp: 5932
Ion Ratio Lower Upper
106 100
91 243.5 112.1 336.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampleId :

MW-5

Tot Ion:152 Resp: 239230

Ion Ratio Lower Upper

152 100

115 66.7 32.1 96.3

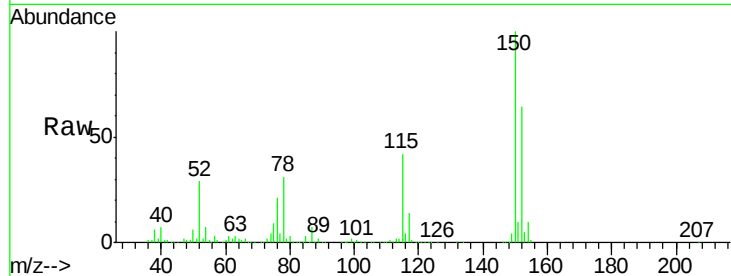
150 157.7 0.0 344.8

Manual Integrations

APPROVED

MMDadoda

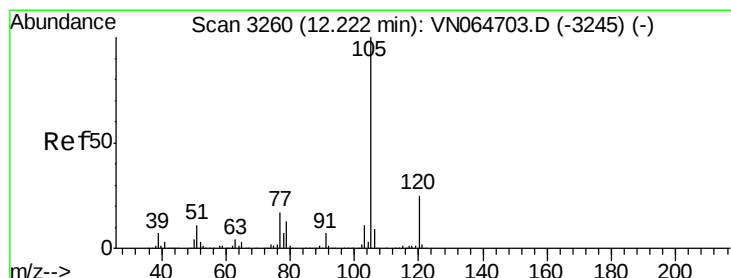
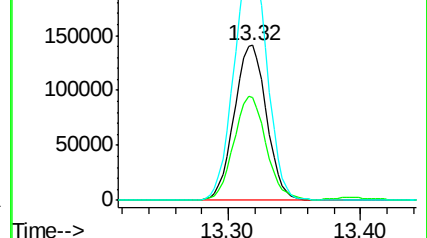
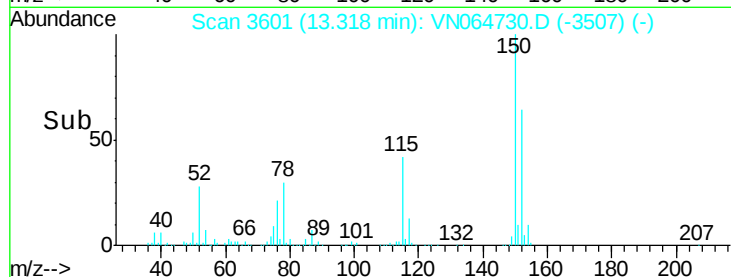
11/24/2020 3:11:20 PM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 159.963 ug/l

RT: 12.22 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN064730.D

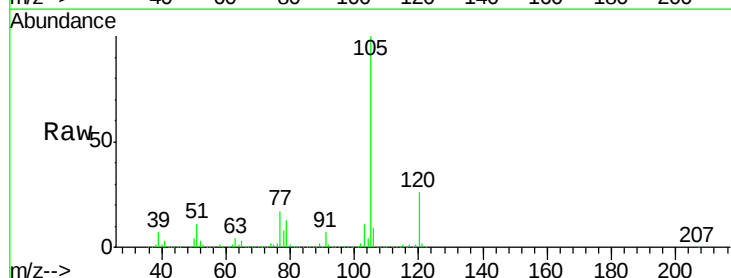
Acq: 19 Nov 2020 14:01

Tgt Ion:105 Resp: 2717024

Ion Ratio Lower Upper

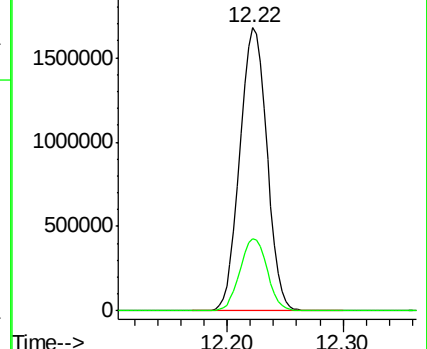
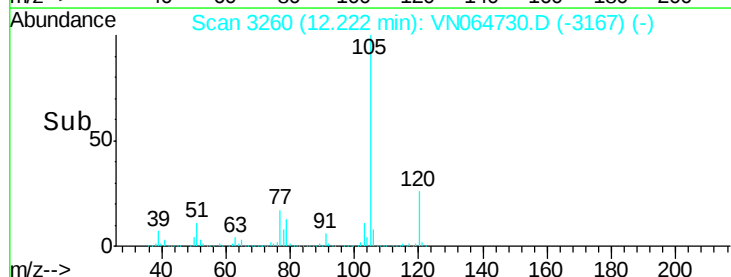
105 100

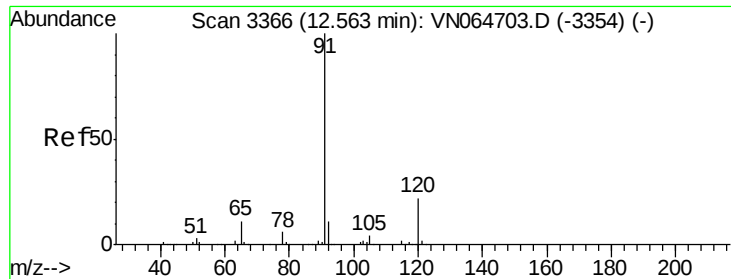
120 25.5 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 186.813 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampleId :

MW-5

Tot Ion: 91 Resp: 3695291

Ion Ratio Lower Upper

91 100

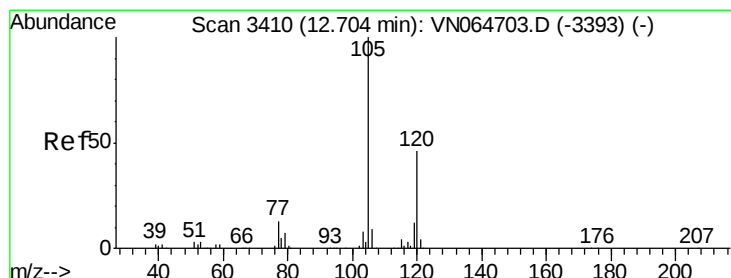
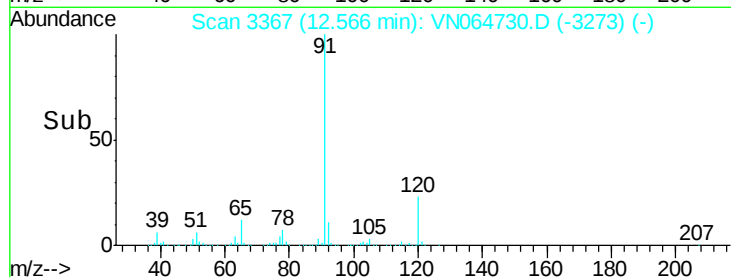
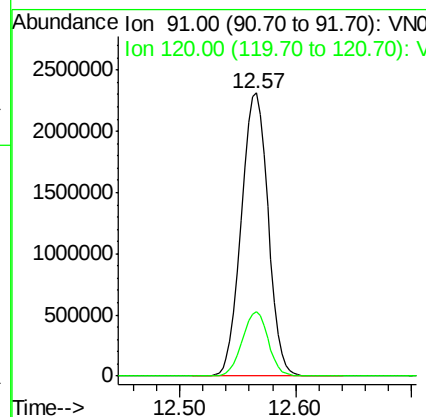
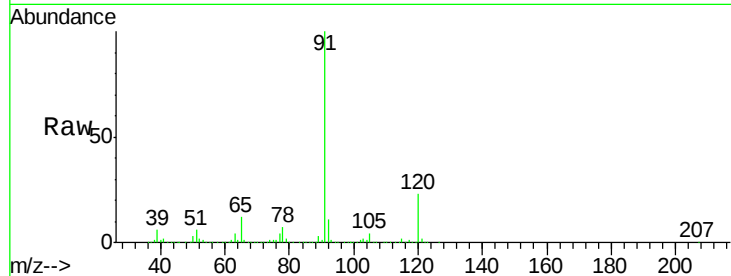
120 22.0 10.9 32.9

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



#80

1,3,5-Trimethylbenzene

Concen: 1.192 ug/l m

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064730.D

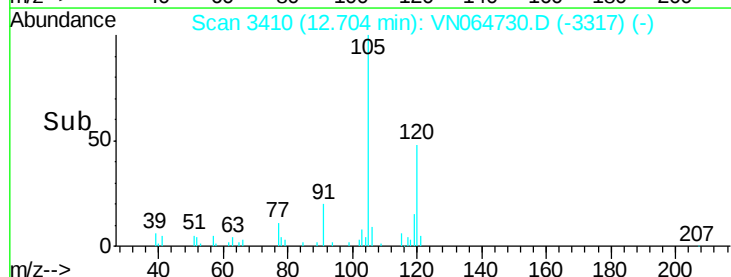
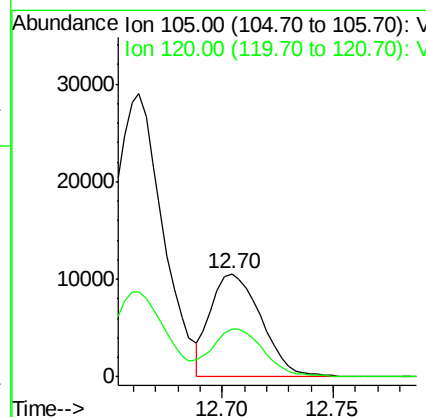
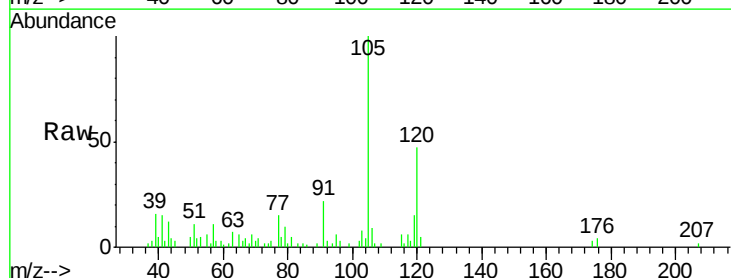
Acq: 19 Nov 2020 14:01

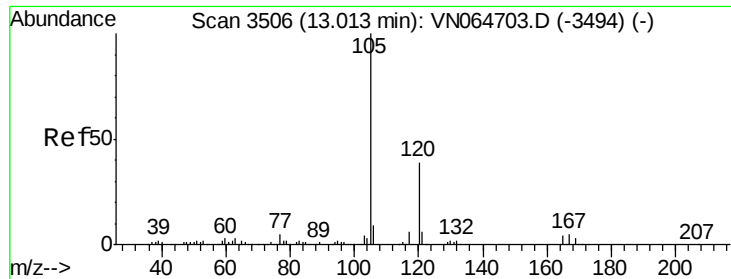
Tgt Ion: 105 Resp: 16824

Ion Ratio Lower Upper

105 100

120 1002.4 22.9 68.8#





#84

1,2,4-Trimethylbenzene

Concen: 1.724 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

ClientSampled :

MW-5

Tot Ion:105 Resp: 24822

Ion Ratio Lower Upper

105 100

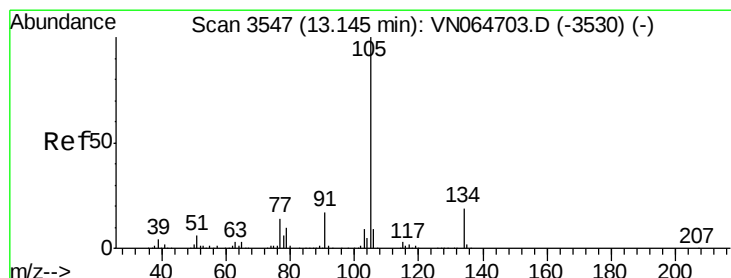
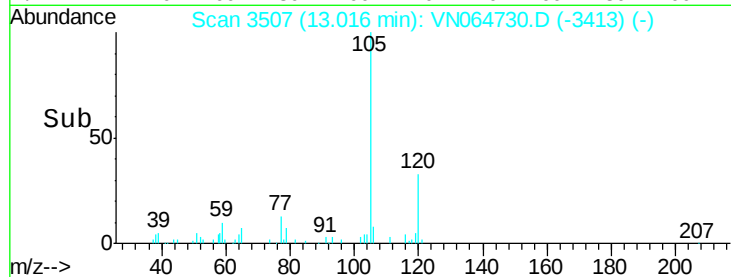
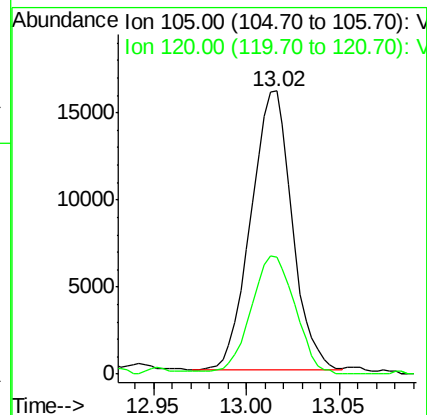
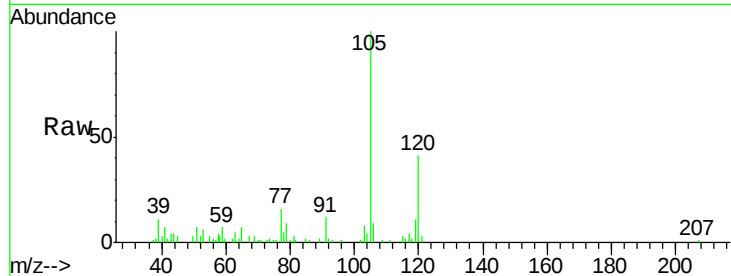
120 45.5 22.0 66.0

Manual Integrations

APPROVED

MMDadoda

11/24/2020 3:11:20 PM



#85

sec-Butylbenzene

Concen: 8.187 ug/l

RT: 13.14 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN064730.D

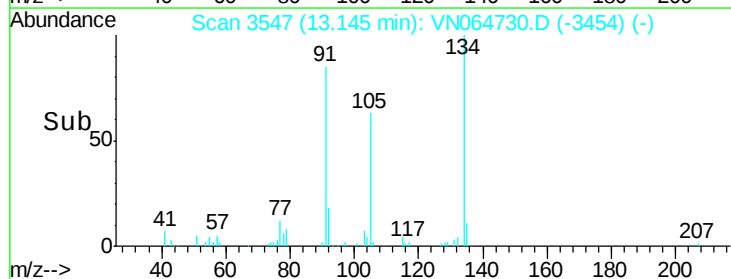
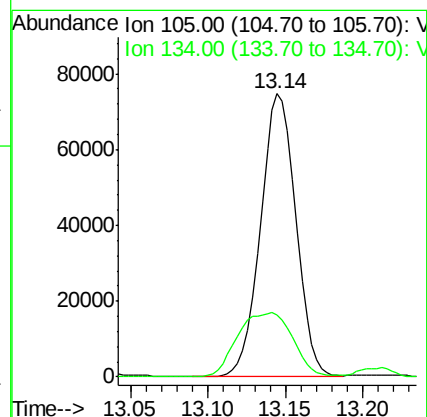
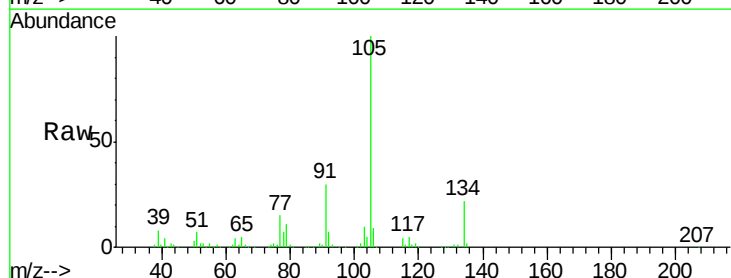
Acq: 19 Nov 2020 14:01

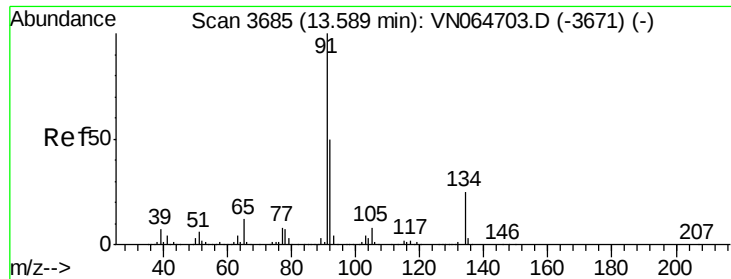
Tgt Ion:105 Resp: 119106

Ion Ratio Lower Upper

105 100

134 35.4 9.5 28.5#





#89

n-Butylbenzene

Concen: 12.170 ug/l

RT: 13.59 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Instrument :

MSVOA_N

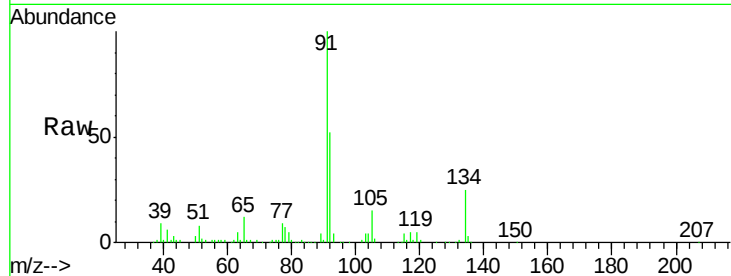
ClientSampled :

MW-5

Tot Ion	Ratio	Resp	Lower	Upper
91	100	152017		
92	43.6	24.9	74.8	
134	43.2	12.0	36.0	

Manual Integrations
APPROVED

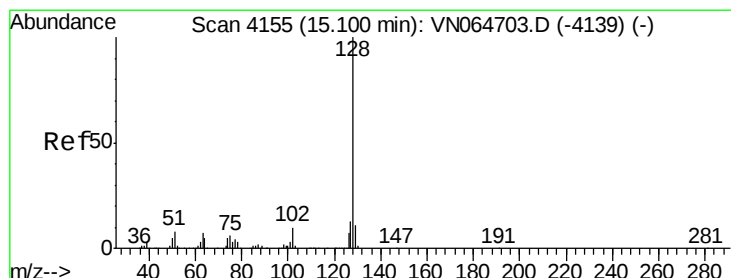
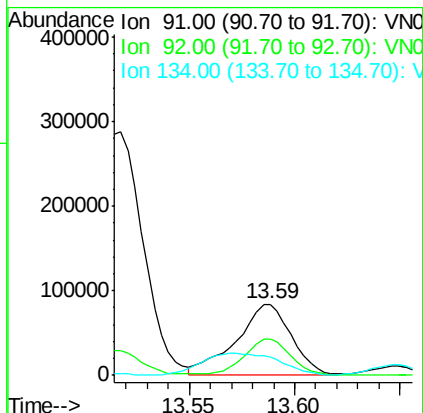
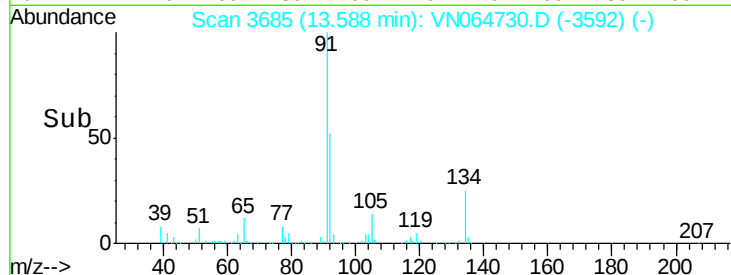
MMDadoda
11/24/2020 3:11:20 PM



Abundance Ion 91.00 (90.70 to 91.70): VN064730.D (-3671) (-)

Ion 92.00 (91.70 to 92.70): VN064730.D (-3671) (-)

Ion 134.00 (133.70 to 134.70): VN064730.D (-3671) (-)



#95

Naphthalene

Concen: 132.269 ug/l

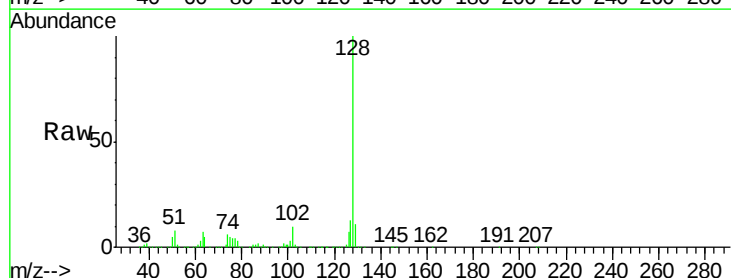
RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064730.D

Acq: 19 Nov 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	1778501		
127	13.0	10.8	16.2	
129	10.8	8.9	13.3	



Abundance Ion 128.00 (127.70 to 128.70): VN064730.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN064730.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN064730.D (-4139) (-)

